

Digestive Diseases
Summary of Methods and Data for Estimate of Costs of Illness

- | | |
|---|----------------------|
| 1. Estimated Total Economic Cost | \$ 56.2 billion |
| Estimated Direct Cost | \$ 41.5 billion |
| Estimated Indirect Cost | \$ 14.7 billion |
| Reference Year | 1985 |
| IC Providing the Estimate | NIDDK |
| | |
| Direct Costs Include: Other related nonhealth costs | No |
| Indirect Costs Include: | |
| Mortality costs | Yes |
| Morbidity costs: Lost workdays of the patient | Yes |
| Morbidity costs: Reduced productivity of the patient | No |
| Lost earnings of unpaid care givers | No |
| Other related nonhealth costs | No |
| Interest Rate Used to Discount Out-Year Costs | 4 % |
| 2. Category code(s) from the International Classification of Diseases, 9th Revision, Clinical Modification,(ICD-9-CM) for all diseases whose costs are included in this estimate: <u>See extended list of codes for digestive diseases in item 20 below).</u> | |
| 3. Estimate Includes Costs: | |
| Of related conditions beyond primary, strictly coded ICD-9-CM category | Yes |
| Attributable to the subject disease as a secondary diagnosis | Yes, but only partly |
| Of conditions for which the subject disease is an underlying cause | No |
| 4. Population Base for Cost Estimate (Total U.S. pop or other) | Total U.S. pop. |
| 5. Annual (prevalence model) or Lifetime (incidence model) Cost: | Annual |
| 6. Perspective of Cost Estimate (Total society, Federal budget, or Other) | Total Society |
| 7. Approach to Estimation of Indirect Costs | Human Capital |
| 8. <u>Source of Cost Estimate:</u> (Reference published or unpublished report, or address and telephone of person/office responsible for estimate) | |

Broun, D.M. and Everhart, J.E., “Cost of Digestive Diseases in the United States”. In Everhart J.E., ed. *Digestive Diseases in the United States: Epidemiology and Impact*. DHHS, PHS, NIH, Washington, D.C. U.S. GPO, 1994. NIH Publication No. 94-1447.

9. Other Indicators of Burden of Disease

Digestive diseases are the second most costly group of diseases, accounting for about 11 percent of health care expenditures in 1985. Table 1, page X of the summary in the reference above (see attached) summarizes the burden of disease.

10. Commentary:

The most reliable data were derived from hospital statistics for the costs of hospital stays. Physician charges in the hospital and for office care were less reliable and less inclusive, as were

the costs of prescription and non-prescription medications. Direct costs extrapolated to 1992 were \$88 billion. A “bottom-up” approach was taken in which the individual components of each digestive disease were estimated. Thus there are estimates for the cost of each disease and the area of health care in which these diseases have the greatest impact.

Extended List of ICD-9-CM Codes for Digestive Diseases:

<u>Diagnosis</u>	<u>ICD-9-CM Code</u>
Gastrointestinal Infections	01-09
Hepatitis	070
Esophageal Cancer	150
Gastric Cancer	151
Colorectal Cancer	153-154
Hepatic Cancer	155
Pancreatic Cancer	157
Other Malignancy	152, 156, 158, 159
Benign Neoplasms	211
Hemorrhoids	455
Esophageal varices	456.0-456.2
Restrictively Coded Digestive Diseases	530-579
Digestive Symptoms	787, 789